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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/781,560		02/18/2004	Hung K. Cheung	P05802 (NATI15-05802)	9294	
23990	7590	08/10/2005		EXAMINER		
DOCKET (CLERK		COX, CASSANDRA F			
P.O. DRAW	ER 80088	9			D. DED MANDED	
DALLAS, TX 75380				ART UNIT	PAPER NUMBER	
				2816		

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				- AN
		Application No.	Applicant(s)	<i>k</i> 1 -
		10/781,560	CHEUNG ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Cassandra Cox	2816	
Period f	The MAILING DATE of this communication ap or Reply	opears on the cover sheet wit	h the correspondence addres	s
THE - Extra afte - If th - If N - Fail	HORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rej 0 period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statu reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re ply within the statutory minimum of thirty d will apply and will expire SIX (6) MONT te, cause the application to become AB/	ply be timely filed (30) days will be considered timely. FHS from the mailing date of this commun ANDONED (35 U.S.C. § 133).	nication.
Status				
1)🛛	Responsive to communication(s) filed on 181	February 2004.		
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-final.		
3)□	Since this application is in condition for allows closed in accordance with the practice under	•	*	rits is
Disposi	tion of Claims			
5)□ 6)⊠	Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1-7,13,14 and 20</u> is/are rejected. Claim(s) <u>8-12 and 15-19</u> is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.		
Applicat	tion Papers			
10)⊠	The specification is objected to by the Examina The drawing(s) filed on <u>15 July 2004</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	a) accepted or b) object e drawing(s) be held in abeyand ction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.	• •
Priority	under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	nts have been received. Ints have been received in Apports documents have been approximate (PCT Rule 17.2(a)).	oplication No received in this National Stag	je
Attachmei	• •	A) []	Immery (PTC 442)	
2) 🔲 Noti 3) 🔲 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	Paper No(s)	ummary (PTO-413) //Mail Date formal Patent Application (PTO-152 <u>)</u> _·)

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7, 13-14, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by anticipated by Neravetla et al. (U.S. Patent No. 6,861,881).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

In reference to claim 1, Neravetla discloses in Figure 1 an edge counter comprising: an input receiving an input signal (CLK) and an output on which an output signal (CLK_OUT) is driven; and a set of logic gates (110, 112, 120, 130, 140, 150, 170, 171, 180, 190) between the input and output, the logic gates configured to change a state of the edge counter with each transition of the input signal (CLK) and to produce

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an output signal having a cycle corresponding to a predetermined number of transitions of the input signal (see column 2, lines 12-19). The same applies to claims 14 and 7.

In reference to claim 2 since Neravetla does not impose any restrictions on the PCOUNT_D and NCOUNT_D) values, it is believed by the examiner that the predetermined number may be even or odd.

In reference to claim 3, Neravetla discloses in Figure 1 a signal path between the input and output through the logic gates includes a sequence of only two logic gates (180, 190). The same applies to claims 13 and 20.

In reference to claim 4, Neravetla discloses in Figure 1 that the logic gates generate a set of intermediate signals (PCOUNT_D, NCOUNT_D), at least one of the intermediate signals changing state in response to transition of the input signal.

In reference to claim 5, Neravetla discloses that the edge counter is part of a clock divider. Furthermore wireless receivers comprising clock dividers are well-known in the art of which fact official notice is taken. The same applies to claim 6, wherein wireless communication systems including receivers and transmitters are well-known.

Allowable Subject Matter

- 3. Claims 8-12, and 15-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter: Claims 8-12 and 15-19 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 4A wherein the method includes

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inserting gray codes for states of the intermediate signals in a table in combination with

the rest of the limitations of the base claims and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Cassandra Cox whose telephone number is 571-272-

1741. The examiner can normally be reached on Monday-Thursday from 7:00 AM to

4:30 PM and on.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free).

CC

August 4, 2005

MY-TRANG NUTON

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